

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

6.9 FT³ FORCED CONVECTION BENCHTOP OVEN

DESCRIPTION:

This specification covers the requirements for the 6.9 ft³ Forced Convection Benchtop Oven that will be used for heating aggregate, soils, and asphalt construction materials.

REQUIREMENTS:

The interior chamber and ducting shall be constructed of 304 stainless steel. The Oven must have two (2) chamber doors and separate switches for power and heat. The fan and heater must be top mounted.

Oven Dimensions:

- External dimensions must be 36" W x 24.5" D x 36.5"H (± 2")
- Internal dimensions must be 30" W x 18" D x 22"H (± 3")
- Work chamber must be of 6.9 cubic foot capacity (± 0.1)

Must be/have the following:

- An operating range of 35° to 204°C (95° to 400°F).
- Minimum 2" insulation to minimize heat loss, external thermal spots, and air leakage
- 2.4 kilowatt open coil heater for rapid heat-up rates
- A ¼ horse power recirculating motor providing an airflow capacity of 240 cubic feet per minute (113.3LPS).
- A single set-point solid state digital controller with an easy-to-read LED display capable of maintaining chamber temperature to within ± 3°C at 150°C and ± 4°C at 204°C
- Equipped with a high limit control

ELECTRICAL:

- Oven shall operate on standard power utilities of 120 V, 1 phase, 50-60 Hz
- Oven shall be UL listed.

Must come complete with the following:

- Two (2) mild steel wire, nickel-plated, reinforced adjustable shelves with a minimum shelf capacity of 200 pounds per shelf
- One (1) operator's manual

WARRANTY:

- Must include a standard manufacturer warranty.

APPROVED BRANDS/MODELS:

- Despatch Industries, Model LBB1-69-2, or equal.